

INTERNATIONAL SEARCH REPORT

Intern. Application No
PCT/JP 03/00438

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A47C3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A47C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 17 78 172 A (HIMOLLA HIERL GMBH C) 26 August 1971 (1971-08-26) page 2	1-9
A	EP 0 820 713 A (BECKER KG FRITZ) 28 January 1998 (1998-01-28) column 2, line 41 - line 43 abstract	1-9
A	US 4 736 984 A (TACKER BILL D) 12 April 1988 (1988-04-12) abstract	1-9
A	EP 0 651 958 A (LUNDENES TOR GUNNAR) 10 May 1995 (1995-05-10) abstract	1-9
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

2 April 2004

Date of mailing of the international search report

21 APR. 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 119 343 A (PENTZIEN FRED R) 10 October 1978 (1978-10-10) abstract -----	4

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern: Application No

PCT/03/00438

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 1778172	A	26-08-1971	DE 1778172 A1	26-08-1971
EP 0820713	A	28-01-1998	DE 29700437 U1	27-11-1997
			EP 0820713 A2	28-01-1998
			JP 10066629 A	10-03-1998
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			AT 169468 T	15-08-1998
			DE 69412421 D1	17-09-1998
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			DK 651958 T3	17-05-1999
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US 4119343	A	10-10-1978	NONE	